

# Purchase Order Receipt Listing

Monday, October 24, 2016 10:27:21 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO33886 Receipt Dates from 10/21/2016 to 10/21/2016 All Line Item Types  
All Item ID/GL/WOs All Rec. Employees All Currencies  
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
<b>Vendor ID \ Vendor Name</b> VU-MET002 A.M. Castle & Co. (Canada) Inc.- C/O 910720											
PO33886	2		M7075T6B1.000x2.5 f 00		10/21/2016 12.0000	10/21/2016	12.0000		0.0000	0	\$0.00
USD	No		7075-T6 Bar 1.000 x f 2.500"		12.0000	PLOU01			0.0000	0	
			m135933/151620/621								
	3		M7075T73B4.000x4. f 000		10/21/2016 8.0000	10/21/2016	8.0000		0.0000	0	\$0.00
	No		7075-T73 Bar 4.0 x f 4.0 grain direction along 4" wide		8.0000	PLOU01			0.0000	0	
			m135933/151620/621								
	4		M174B1.250X02.000 f 17-4 SS Bar 1.250 x f 2.00		10/21/2016 12.0000	10/21/2016	12.0000		0.0000	0	\$0.00
	No		m135933/151620/621		12.0000	PLOU01			0.0000	0	
			m135933/151620/621								
	5		D6101-001P 7075-T7351 2X6X6.25	Each Each	10/21/2016 20.0000	10/21/2016	20.0000		0.0000	0	\$0.00
	No		m135933/151620/621		20.0000	PLOU01			0.0000	0	
	6		D6101-007P 7075-T7351 8.25X7.75X2.5	Each Each	10/21/2016 20.0000	10/21/2016	20.0000		0.0000	0	\$0.00
	No		m135933/151620/621		20.0000	PLOU01			0.0000	0	
	7		71401-45 PROCUREMENT QUALITY CLAUSES		10/21/2016 1.0000	10/21/2016	1.0000		0.0000	0	\$0.00
	No		m135933/151620/621		1.0000	PLOU01			0.0000	0	

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
<div> <div>Total Received Quantity:</div> <div>Total Qty to Inspect (PO U/M):</div> <div>Total Reject Quantity:</div> <div>Total Receipt Value:</div> <div>Total Balance Due Quantity:</div> </div>											73.0000 0.0000 0.0000 \$0.00 0.0000



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Page 1 of 2

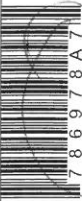
Shipment No:3106150

<b>Ship From:</b> A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		<b>Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	<b>Ship To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	<b>Deliver To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
<b>Date Shipped</b> 20-OCT-16	<b>F.O.B.</b> ORIGIN	<b>Freight Terms</b> Prepaid	<b>Carrier</b> MANITOULIN	<b>BOL No</b> 3106150-2

<b>Shipment Details</b>	<b>Final Destination Branch - TOR</b>
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<b>Order No</b> 4519089	<b>Line No</b> 2	<b>Item No</b> 752188.MO	<b>Description</b> 1.0000.PL.7075.T651.ALUMINUM:USI.48.5000.144.5000 CUT 2SIDED TO 2.5 IN ( + .1250/- .0000 IN) X 144.5 IN ( + .1250/- .0000 IN) - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12 Email P/s and certs to: clavoie@dartaero.com
<b>Purchase Order No</b> 33886	<b>Part Number</b>	<b>Ordered Qty</b> 1.00 PCS	<b>Invoice Qty</b> 1.00 PCS

**Details**  
ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY  
ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S  
Email P/s and certs to: clavoie@dartaero.com  
END USER: DART AEROSPACE  
END USE: COMMERCIAL AIRCRAFT PARTS

<b>Delivery No.</b> 120601319	<b>Mill</b> KAISER ALUMINUM	<b>Heat Number</b>  786978A7	<b>Mech Id</b> 1	<b>PCS</b> 1	<b>Width (IN)</b>	<b>Length (IN)</b>	<b>Shipped Qty(LBS)</b> 37.6174
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These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported hereunder. Diversion contrary to US Law is Prohibited.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A. M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned.

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law prohibited.

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for credit.	Reviewed by Authorized Castle Metals Representative:		910Z 07 130	Date:	Name:	
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SP16-10-24

## SHIP TO:

A M CASTLE & CO  
3050 SOUTH HYDRAULIC  
WICHITA, KS 67216

# KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4418079

## SOLD TO:

AM CASTLE & CO- SOLD TO  
1420 KENSINGTON RD  
SUITE 220  
OAK BROOK, IL 60523

CUSTOMER PO NUMBER: 378812		WORK PACKAGE:		CUSTOMER PART NUMBER: 752188		SHIP RUN/LOAD: 103558/22		GOV'T CONTRACT NUMBER:		
KAISER ORDER NO: 1212700		LINE ITEM: 1	SHIP DATE: 9-MAY-2016	ALLOY: 7075	CLAD: BARE	TEMPER: T651	PRODUCT DESCRIPTION: KaiserSelect Plate			
WEIGHT SHIPPED: 3626 LB		QUANTITY: 5 PCS EST.		TRUCK B/L #: 2060184		GAUGE: 1.0000 IN ( 25.4000 MM)		DIAMETER/WIDTH: 48.500 IN (1231.9 MM)		LENGTH: 144.500 IN (3670.3 MM)

MHU 2001704: LOT 786935A7: 4 pieces;

MHU 2001832: LOT 786978A7: 1 pieces;

### Certified Specifications

AMS 4045/RevK  
ASTM B 209/Rev14  
BSS 7055/RevB  
DPS 4.713/RevAK  
PS 21211/RevP

AMS-QQ-A-250/12/RevA  
ASTM B 594/Rev13  
CMMP 025/RevU  
GAMPS 9101/RevB/AmdSCN1

AMS-STD-2154/RevA  
BAC 5439/RevJ  
CSTI 006/RevE  
GSS16100/RevG/Amd1

Test Code: 1512

### Test Results

Lot: 786935A7 Cast 189 Drop 34 Ingot 3 Parent Lot: 173930B9 Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T651	LT / 2 (Min:Max)	82.8 : 83.5 (571 : 576)	73.5 : 74.8 (507 : 516)	13.1 : 13.2

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.07	0.19	1.5	0.02	2.5	0.19	5.8	0.02	0.01	0.01	TOT 0.06



# KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4418079

Lot: 786978A7 Cast 189 Drop 55 Ingot 2 Parent Lot: 173877B2 Melted in USA

(ASTM E8/B557)  
(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T651	LT / 2 (Min:Max)	83.1 : 83.7 (573 : 577)	74.0 : 75.0 (510 : 517)	12.9 : 13.0

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.08	0.13	1.6	0.02	2.5	0.20	5.6	0.02	0.01	0.01	TOT 0.05

### ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
7075												
MIN(wt%)	0.00	0.00	1.2	0.00	2.1	0.18	5.1	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.05	TOT	0.15

Aluminum Remainder

### ORDER COMMENTS

AMC CA-15403 R 8

### TEST NOTES

Metal represented by this test report was 100% Type I  
(immersion) ultrasonically tested from one side with 3mm  
dead zones top and bottom and meets the Class A and Class B  
requirements of all specifications referenced on this test  
report. No surface marking of sonic indications is  
performed.

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC (Kaiser), is ISO-9001:2008/AS9100C certified and hereby certifies that all material shipped under this order:  
\* has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements.  
\* was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.  
\* has been thermally processed in compliance with AMS 2772, where applicable.  
\* is mercury free, within the limits of detection of ASTM E1251 (< = 1ppm).  
\* is in compliance with RoHS 2, European Union Directive 2011/65/EU.  
\* is in compliance with and regularly monitors any updates to the European Chemical Agency, ECHA, REACH regulations, IEC) n°1907/2006.  
\* is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.  
Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

*James Hemenway*

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

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Page 1 of 2

Shipment No:3106150

<b>Ship From:</b> A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		<b>Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	<b>Ship To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	<b>Deliver To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
<b>Date Shipped</b> 20-OCT-16	<b>F.O.B.</b> ORIGIN	<b>Freight Terms</b> Prepaid	<b>Carrier</b> MANITOULIN	<b>BOL No</b> 3106150-2

**Shipment Details**

Final Destination Branch - TOR

<b>Order No</b> 4519089	<b>Line No</b> 3	<b>Item No</b> 752132.MO	<b>Description</b> 4.0000.PL.7075.T7351.ALUMINUM.USI.48.5000.144.5000 CUT 2SIDED TO 48.5 IN ( + .0620/- .0000 IN (GRAIN TO RUN ALONG 4") X 4 IN ( + .0620/- .0000 IN (GRAIN TO RUN ALONG 4") ) - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12 Email P/s and certs to: clavoie@dartaero.com	
<b>Purchase Order No</b> 33886	<b>Part Number</b>	<b>Ordered Qty</b> 2.00 PCS	<b>Invoice Qty</b> 2.00 PCS	
<b>Details</b> ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS				
<b>Delivery No.</b> 120601320	<b>Mill</b> KAISER ALUMINUM	<b>Heat Number</b>  176103B0	<b>Mech Id</b> 2	<b>Shipped Qty(LBS)</b> 160.8277

These commodities/technologies are subject to US Export Administration &amp; US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle &amp; Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned.

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law prohibited.

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A. M. Castle & Co.

# PACKING SLIP/ CERTIFICATE OF CONFORMANCE

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		OCT 20 2016	Date:	Name:
for credit.	Reviewed by Authorized Castle Metals Representative:			

2016-10-24



## SHIP TO:

A M CASTLE & CO  
3050 SOUTH HYDRAULIC  
WICHITA, KS 67216

# KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215

Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number

4420569

## SOLD TO:

AM CASTLE & CO- SOLD TO  
1420 KENSINGTON RD  
SUITE 220  
OAK BROOK, IL 60523

CUSTOMER PO NUMBER: 378805		WORK PACKAGE:		CUSTOMER PART NUMBER: 752132		SHIP RUN/LOAD: 103581/13		GOV'T CONTRACT NUMBER:		
KAISER ORDER NO: 1212702		LINE ITEM: 1	SHIP DATE: 1-JUN-2016	ALLOY: 7075	CLAD: BARE	TEMPER: T7351	PRODUCT DESCRIPTION: KaiserSelect Plate			
WEIGHT SHIPPED: 5700 LB		QUANTITY: 2 PCS EST.		TRUCK B/L #: 2060588		GAUGE: 4.0000 IN (101.6000 MM)		DIAMETER/WIDTH: 48.500 IN (1231.9 MM)		LENGTH: 144.500 IN (3670.3 MM)

MHU 1999057: LQT 176103B0: 1 pieces;

MHU 2000203: LOT 173844B2: 1 pieces;

## Certified Specifications

AMS 4078/RevJ  
ASTM B 209/Rev14  
BSS 7055/RevB  
DPS 4.713/RevAK  
MMS 159/RevT

AMS-QQ-A-250/12/RevA  
ASTM B 594/Rev13  
CMMP 025/RevU  
GAMPS 9101/RevB/AmdSCN1  
PS 21211/RevP

AMS-STD-2154/RevA  
BAC 5439/RevJ  
CSTI 006/RevE  
GSS16100/RevG/Amd1

Test Code: 4297

## Test Results

Lot: 173844B2 Cast 189

Drop 37

Ingot 2

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T7351	LT / 2 (Min:Max)	62.1 : 63.2 (428 : 436)	49.7 : 50.6 (343 : 349)	10.3 : 10.9

(ASTM E1004)

(EN 2004-1)

Conductivity %IACS :	42.2 Min	42.4 Max
(MS/M) :	24.5 Min	24.6 Max

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.08	0.18	1.6	0.02	2.5	0.19	6.0	0.03	0.01	0.02	TOT 0.05



# KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4420569

Lot: 176103B0

Cast 189

Drop 33

Ingot 2

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T7351	LT / 2 (Min:Max)	63.5 : 63.5 (438 : 438)	50.7 : 50.9 (350 : 351)	10.4 : 10.7

(ASTM E1004)

(EN 2004-1)

Conductivity %IACS :	42.2 Min	42.4 Max
(MS/M) :	24.5 Min	24.6 Max

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	TOT	OTHER
Actual(wt%)	0.06	0.16	1.5	0.02	2.5	0.20	5.8	0.02	0.01	0.02		0.05

### ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
7075												
MIN(wt%)	0.00	0.00	1.2	0.00	2.1	0.18	5.1	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.05	TOT	0.15

Aluminum Remainder

### ORDER COMMENTS

AMC CA-15413E R 6

### TEST NOTES

Metal represented by this test report was 100% Type I (immersion) ultrasonically tested from one side with 3mm dead zones top and bottom and meets the Class A and Class B requirements of all specifications referenced on this test report. No surface marking of sonic indications is performed.

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC (Kaiser), is ISO-9001:2008/AS9100C certified and hereby certifies that all material shipped under this order:

- \* has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements.
- \* was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- \* has been thermally processed in compliance with AMS 2772, where applicable.
- \* is mercury free, within the limits of detection of ASTM E1251 (< = 1 ppm).
- \* is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- \* is in compliance with and regularly monitors any updates to the European Chemical Agency, ECHA, REACH regulations, (EC) n°1907/2006.
- \* is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

*James Hemmenway*

JAMES HEMMENWAY, TECHNICAL PROCESS MANAGER





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Shipment No:3104736

<b>Ship From:</b> A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		<b>Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	<b>Ship To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	<b>Deliver To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
<b>Date Shipped</b> 19-OCT-16	<b>F.O.B.</b> ORIGIN	<b>Freight Terms</b> Prepaid	<b>Carrier</b> MANITOU LIN	<b>BOL No</b> 3104736-2

Shipment Details

Final Destination Branch - TOR

<b>Order No</b> 4522995	<b>Line No</b> 2	<b>Item No</b> 9166.BO	<b>Description</b> 1.2500.2.0000.FLAT.17CR-4NI.STAINLESS.HR.ANN.PICKLE.132.0000 <del>156.0000</del> SPECIFICATIONS: AMS 5643 ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com		
<b>Purchase Order No</b> 83886	<b>Part Number</b>		<b>Ordered Qty</b> 102.00 LBS	<b>Invoice Qty</b> 12.5417 FT	
<b>Details</b> END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS					
<b>Delivery No.</b> 120614174	<b>Mill</b>	<b>Heat Number</b>  264319	<b>Mech Id</b> 1	<b>Width (IN)</b>	<b>Shipped Qty(LBS)</b> 150.5000 108.0000

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

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These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law prohibited.  
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A. M. Castle & Co.

PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Reviewed by Authorized Castle Metals Representative:		Date: <b>OCT 19 2016</b>	Name: <i>LM</i>
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*8016-10-21*

# Acciaierie Valbruna S.p.A.



**CERTIFICATO DI COLLAUDO**  
**ABNAHMEPRUEFZEUGNIS**  
**INSPECTION CERTIFICATE**  
**CERTIFICAT DE RECEPTION**  
**EN 10204 (2004) , 3.1**

38100 VICENZA (Italia) - Viale della scienza, 25 z.l.  
 Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4  
 Telephone number: 0039 (0) 444988211

Clients / Beneficiaries/Clienti  
**VALBRUNA STAINLESS INC.**  
 2400 TAYLOR STREET WEST  
 48901-FORT WAYNE, IN 48901-US

Produced by: **ACCIAIERIE VALBRUNA S.P.A.**  
 Hersteller/Hersteller/Hersteller

Avviso di Spedizione: D-V114033847  
 Lieferungsbeleg/Lnfr. L.

Certificato nr: MEST690980/2014/  
 Prüfung/Prüfung

Conferma ordine nr: E114004488  
 Vertrags-Order/Vertrag

Marchio di Fabbrica:  
 Zeichen des Lieferanten  
 Trade mark  
 Signe de l'usine productrice

Funzione del Collaudatore:  
 Zweck der Werkstoffprüfung  
 Inspector's mark/Prüfung der Fabrik



Stato di fornitura: Hot rolled Descaled COND. A Hot rolled  
 Lieferzustand/Delivery state/État de livraison

Tipo di Elaborazione: E+AOD  
 Fertigstellung/Fertigstellungsart/Procédure de fabrication

Specifiche:  
 Anforderungen / Requirements / Exigences

V81 FLAT-2630 A  
 AMS 5943 R 517400 A  
 ASTM A594 2013 517400 A

AISI 830  
 ASME SA594 2013 517400 A (0)  
 ASTM F899 2012 630

AMS 2303 F.  
 ASTM A370 2013.

(0) SECTION II PT. A 2013 EDITION

Qualità: 630

Werkstoff/Grade/Qualité

Marca:

V174

Tolleranza: ASTM A484-14 TABLE 5

Tolerance/Allowance/Tolérance

Punzonatura: 630

Punching/Marking/Markage

Pos. nr. Pos. nr. N. de pos.	Oggetto Designation Produit designation Design. du produit	Dimensioni - In Abmessungen Dimension	Lunghezza - In Länge Length Longueur	Colata Schmelze Heat Chaudi	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losn. Lot n. Lot n.
0110	Flat	2,0000 x 1,2500	151 / 152	264318		4,214	409208310

TEST ALLO STATO DI FORNITURA									
Test on delivery condition Prüfung auf Lieferzustand Prüfung des Zustands des Materials bei Lieferung									
TEST	Proveita/Provenza Bewertung/Provenza Long. Dim. Dim. Werte Dim. Dim. Long. Dim. Dim. mm	°F	Snervamento Biegeversuch Yield Stress Zugversuch	Snervamento Biegeversuch Yield Stress Zugversuch	Resistenza Zugversuch Tensile strength Bruchversuch	Allungamento Zugversuch Elongation Bruchversuch	Strizione Zugversuch Reduction of area Bruchversuch	Resistenza Zugversuch Tensile strength Bruchversuch	Durezza Härte Hertz HB
Valori richiesti 1 Anforderungen/Required values Valeur demandée		min max							363
A									353

TEST	min	max
A Delta Ferrite		5,0
A Grain size for ASTM E112		1,0 %
A RATINGS FREQUENCY		6
A RATINGS SEVERITY		1,10
		0
		1,05
		0

Sample cond. H900									
Type Traitement Temperature Reddimento Permanenza Type Traitement Temperature Reddimento Permanenza Type Traitement Temperature Reddimento Permanenza									
Ageing	800 °F	200 °F	200 °F	200 °F	200 °F	200 °F	200 °F	200 °F	200 °F
TEST	Proveita/Provenza Bewertung/Provenza Long. Dim. Dim. Werte Dim. Dim. Long. Dim. Dim. mm	°F	Snervamento Biegeversuch Yield Stress Zugversuch	Snervamento Biegeversuch Yield Stress Zugversuch	Resistenza Zugversuch Tensile strength Bruchversuch	Allungamento Zugversuch Elongation Bruchversuch	Strizione Zugversuch Reduction of area Bruchversuch	Resistenza Zugversuch Tensile strength Bruchversuch	Durezza Härte Hertz HB
Valori richiesti 1 Anforderungen/Required values Valeur demandée		min max	170		190	10	40		388
B	12,5	68	180		204	17	52		444
									432

Mechanical properties according to ASTM A370.  
 Delta Ferrite according to AMS 2315.

1) Longitudinal Edge, Transverse Edge, Charpy Edge

Vicenza, 22/10/14  
 V3966611C  
 (Abs. MCE)

Il collaudatore di stabilimento / der Werkstoffverständiger / Works Inspector / L'agent d'usine

M. Rizzotto

Pagina - 1 di 2

# Acciaierie Valbruna S.p.A.



**CERTIFICATO DI COLLAUDO**  
**ABNAHMEPRUEFZEUGNIS**  
**INSPECTION CERTIFICATE**  
**CERTIFICAT DE RECEPTION**  
**EN 10204 (2004), 3.1**

38100 VICENZA (Italia) - Viale della scienza, 25 z.l.  
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4  
Telephone number: 0039 (0) 444989211

Clients / Beschaffungsstellen  
**VALBRUNA STAINLESS INC.**  
2400 TAYLOR STREET WEST  
48801-FORT WAYNE, IN 48801-US

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**  
Hersteller/Hersteller products

State di fornitura: Hot rolled Descaled COND. A Hot rolled  
Lieferzustand/Delivery state: Hot rolled

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-VI14033947  
Lieferanweisung/Packing list: L

Ordine nr: 39566 STOCK CAROL STR  
Bestell-Nr./order/Commande

Tipo di Elaborazione: E+AOD  
Fertigungsart/Verfahren/Processing process/Mode of fabrication

Certificato nr: MEST590980/2014/  
Prüfung/Test/Exam

Conferma ordine nr: E114004468  
Werk/Dur Order/Nr.

Marchio di Fabbrica:  
Zeichen des Unternehmens  
Trade mark  
Sigla del nostro prodotto

Funzione del Collaudatore:  
Beauftragter der Werksschwermetallprüfung  
Inspector's assignment/Function of the inspector



## Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata / Heat Schmelze / Cast	min max	0,070 1,00	1,00	16,00 17,00	0,50	3,00 5,00	3,00 5,00	-	0,040	0,030	0,030	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %	Ta %	-	-	-
264319	0,040	0,40	0,48	15,10	0,18	3,22	4,90	0,044	0,028	0,001	0,033	0,0018	-	-	-

Colata / Heat Schmelze / Cast	min max	0,150 0,250	8°C 0,250	-	-	-	-	-	-	-	-	-	-	-	-
	Nb%+Ta%	Cb(Nb)%	-	-	-	-	-	-	-	-	-	-	-	-	-
264319	0,261	0,259	-	-	-	-	-	-	-	-	-	-	-	-	-

Material solution annealed 1904F for 1 h.  
air cooled to below 80F.

Micro and macro etch test: satisfactory.

Produced without class I-II Ozone depleting substances.

Reduction ratio > 4 : 1

Macro etch test: satisfactory.

Material is DFAPS Compliant

Bene stato soddisfatte tutte le condizioni richieste  
Die gestellten Anforderungen sind lt. Analyse erfüllt  
The material has been furnished in accordance with the requirements  
Le conditions et les essais confirment les exigences

Controllo antisensibilizzazione: OK  
Versensibilisierungsprüfung: spektroskopisch durchgeführt  
Antisensitizing treatment: OK  
Controlle antisensibilisation: OK

Controllo visivo e dimensionale: soddisfa le esigenze  
Beachtung und Ausmessung ohne Beanstandung  
Visual inspection and dimensional check satisfactory  
Controlle visuel et dimensionnel: satisfaisant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination

We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

The Quality Management System is Certified acc. Pressure Equipment Directive (97/23/EC) Annex 1, p. 4.3 by TÜV and LLOYD'S

Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.

The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Vicenza, 22/10/14

VC0008  
(Mod. MCE)

Il collaudatore di stabilimento / der Werksachverständige / Works Inspector / L'agent d'usine

M. Rizzotto

Pagina - 2 di 2

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M7075 T3 B4.00X4.00

PO / BATCH NO.: 33886/135933

DATE: 11/10/25

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: 4.00

QUANTITY RECEIVED: 8

THICKNESS RECEIVED: 3.975

QUANTITY INSPECTED: 8

SHEET SIZE ORDERED: \_\_\_\_\_

QUANTITY REJECTED: \_\_\_\_\_

SHEET SIZE RECEIVED: \_\_\_\_\_

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>3.975</u>
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>AMS-QQ-A-250/12</u>
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>HEAT # 17610380</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>M7075 T3 B4.00X4.00</u>
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>135933</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.  
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> DATE: <u>11/10/25</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M174B1.250X2.00

PO / BATCH NO.: 33886/135933

DATE: 11/10/26

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: 1.250

QUANTITY RECEIVED: 12.5'

THICKNESS RECEIVED: 1.250

QUANTITY INSPECTED: 12.5'

SHEET SIZE ORDERED: \_\_\_\_\_

QUANTITY REJECTED: \_\_\_\_\_

SHEET SIZE RECEIVED: \_\_\_\_\_

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORROSION	Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>#17-4</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>1.250</u>
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>A43 5643</u>
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>HEAT# 264319</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>M174B1.250X2.00</u>
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>M135933</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>[Signature]</u> DATE: <u>11/10/26</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M7075T6B1.00X2.50

PO / BATCH NO.: 33886/135933

DATE: 11/10/26

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: 1.00

QUANTITY RECEIVED: 12'

THICKNESS RECEIVED: 1.00

QUANTITY INSPECTED: 12'

SHEET SIZE ORDERED: \_\_\_\_\_

QUANTITY REJECTED: \_\_\_\_\_

SHEET SIZE RECEIVED: \_\_\_\_\_

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/> N	<u>7075T6</u>
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N	<u>1.00</u>
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/> N	<u>AMS-QQ-A250/12</u>
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N	<u>HEAT# 786978A7</u>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N	<u>M7075T6B1.00X2.50</u>
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N	<u>B135933</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS [Signature]</u> DATE: <u>11/10/26</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO33886

Purchase Order Date 10/6/2016

PO Print Date 10/6/2016

Page Number 2 of 4

**Order From :**

VU-MET002

**Ship To :** DART AEROSPACE LTD

METAUX CASTLE  
P.O. BOX 4090 STN A  
TORONTO, ONTARIO M5W OE9  
CANADA

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

Yours ppd

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

Destination-Collect

3	M7075T73B4.000x4.000	7075-T73 Bar 4.0 x 4.0 grain direction along 4" wide	10/21/2016	8.00	\$100.84	\$806.74
---	----------------------	--	------------	------	----------	----------

Yes

f

10/21/2016

MATERIAL: 7075-T73/T73510T73511 BAR AS PER AMS-QQ-A-200/11 OR AMS-QQ-A-225/9 OR AMS 4124 OR AMS-QQ-A-250/12 OR AMS 4078

NOTE: GRAIN DIRECTION MUST RUN ALONG 4" WIDE CUT IN 2PCS OF 4 FT

Line Total: \$806.74

4	M174B1.250X02.000	17-4 SS Bar 1.250 x 2.00	10/21/2016	12.00	\$55.62	\$667.44
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Yes

f

10/21/2016

MATERIAL: 17-4 PH SS BAR AS PER AMS 5604/5643  
GRAIN MUST BE ALONG LENGTH OF BAR  
MINIMUM YIELD TENSILE STRENGTH = 100KSI  
MINIMUM ULTIMATE TENSILE STRENGTH = 150KSI

8/16-10-24.

Line Total: \$667.44

Note:

10/6/2016



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO33886

Purchase Order Date 10/6/2016

PO Print Date 10/6/2016

Page Number 3 of 4

Order From :

METAUX CASTLE  
P.O. BOX 4090 STN A  
TORONTO, ONTARIO M5W OE9  
CANADA

VU-MET002

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

Destination-Collect

5	D6101-001P ✓	7075-T7351 2X6X6.25 ✓	10/21/2016 Yes 10/21/2016	20.00 ✓ Each	\$26.88	\$537.60
---	--------------	-----------------------	---------------------------------	-----------------	---------	----------

AS PER DWG D6101 REV. B  
B151620 ✓  
SIZE: 6.00" X 6.250" X 2.00" THICK  
GRAIN DIRECTION ALONG 6.00" LENGHT  
MATERIAL: 7075-T7351 QQ-A-250/12  
TOLERANCE AS PER QUOTE +.030"/-.000"

Line Total: \$537.60

6	D6101-007P ✓	7075-T7351 8.25X7.75X2.5 ✓	10/21/2016 Yes 10/21/2016	20.00 ✓ Each	\$56.11	\$1,122.20
---	--------------	-------------------------------	---------------------------------	-----------------	---------	------------

AS PER DWG D6101 REV. B  
B151621 ✓  
MATERIAL: 7075-T7351 (QQ-A-250/12)  
SIZE: 7.750" X 8.250" X 2.50" THICK  
GRAIN DIRECTION ALONG: 7.750" LENGTH  
TOLERANCE AS PER QUOTE +.030"/-.000"

Line Total: \$1,122.20

Sp/6-10-24.

Note:

10/6/2016



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO33886**

Purchase Order Date 10/6/2016

PO Print Date 10/6/2016

Page Number 4 of 4

**Order From :**

VU-MET002

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

METAUX CASTLE  
P.O. BOX 4090 STN A  
TORONTO, ONTARIO M5W OE9  
CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

Destination-Collect

7 71401-45

PROCUREMENT  
QUALITY CLAUSES

10/21/2016

1.00

\$0.00

\$0.00

No

10/21/2016

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A017 RAW MATERIAL IDENTIFICATION (AS  
APPLICABLE)

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

Sp16-10-24

Line Total:

\$0.00

PO Total:

\$3,574.38

W  
CL

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Change Nbr: 1

Change Date: 10/6/2016